			1	30	3.15	=	94.50			
			1	32	4.75	=	152.00			
			1	15	6.00	=	90.00			
			1	16	7.60	=	121.60			
			1	33	2.85	=	94.05			
			1	27	3.45	=	93.15			
			1	14	5.00	=	70.00			
			1	27	2.70	=	72.90			
			1	25	2.85	=	71.25			
			1	180	2.50	=	450.00			
			1	14	18.50	=	259.00			
							2440.90	mtr		
						@	0.395		964.16	Kg/mtr
	12mm dia bar									
	Chairs		1	150	1.15	=	172.50			
							172.50	mtr		
						@	0.89		153.53	Kg/mtr
	Lintel									
	12mm dia bar									
			1	5	7.60	=	38.00			
			1	5	7.20	=	36.00			
			1	5	5.30	=	26.50			
			1	5	4.50	=	22.50			
			1	5	5.40	=	27.00			
			1	5	4.00	=	20.00			
			1	5	4.00	=	20.00			
			1	5	10.00	=	50.00			
			1	5	2.00	=	10.00			
			1	5	1.50	=	7.50			
			1	5	18.00	=	90.00			
							347.50			
						@	0.89		309.28	Kg/mtr
								Qty	17846.35	Kg's
								Total Qty Work Done	17.85	Ton
								Qty Payable in this bill	17.85	Ton

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Contractor Representative

Consultant Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS ★ Bangalore

Assistant Engineer
RR Nagar (Project)

11/5

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

Secound and Part

Item No:	62	
Item Name:	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500 - Second floor	

Sl No	Description of work	No.		length		Total length	Remarks		
	Secound Floor								
	Column Bars								
	16mm dia bar								
	C1	4	4	4.00	=	64.00			
		4	10	6.00	=	240.00			
						304.00	mtr		
					@	**1.58**		**480.32**	Kg/mtr
	16mm dia bar								
	C2	2	10	6.00	=	120.00			
		2	6	4.00	=	48.00			
						168.00	mtr		
					@	**1.58**		**265.44**	Kg/mtr
	16mm dia bar								
	C3	3	8	6.00	=	144.00			
		3	8	4.00	=	96.00			
						240.00	mtr		
					@	**1.58**		**379.20**	Kg/mtr
	20mm dia bar								
	C4	6	6	6.00	=	216.00			
						216.00	mtr		
					@	**2.47**		**533.52**	Kg/mtr
	16mm dia bar								
	C4	6	10	4.00	=	240.00			
						240.00	mtr		
					@	**1.58**		**379.20**	Kg/mtr
	25mm dia bar								
	C4	2	6	6.00	=	72.00			
						72.00	mtr		
					@	**3.85**		**277.20**	Kg/mtr
	20mm dia bar								
	C5	2	12	4.00	=	96.00			
						96.00	mtr		
					@	**2.47**		**237.12**	Kg/mtr
	25mm dia bar								
	C6	1	10	6.00	=	60.00			
						60.00	mtr		

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						@	3.85		231.00	Kg/mtr
	20mm dia bar									
	C4		1	12	4.00	=	48.00			
							48.00	mtr		
						@	2.47		118.56	Kg/mtr
	20mm dia bar									
	F2A		1	6	6.00	=	36.00			
							36.00	mtr		
						@	2.47		88.92	Kg/mtr
	16mm dia bar									
	C4		1	10	4.00	=	40.00			
							40.00	mtr		
						@	1.58		63.20	Kg/mtr
	Column Strirrups									
	8mm dia bar C1									
	R1		4	17	1.60	=	108.80			
	R2		4	17	0.76	=	51.68			
	R3		4	34	0.50	=	68.00			
							228.48	mtr		
						@	0.395		90.25	Kg/mtr
	8mm dia bar C2									
	R1		2	18	1.90	=	68.40			
	R2		2	18	0.97	=	34.92			
	R3		2	36	0.62	=	44.64			
							147.96	mtr		
						@	0.395		58.44	Kg/mtr
	8mm dia bar C3									
	R1		3	14	1.90	=	79.80			
	R2		3	14	0.97	=	40.74			
	R3		3	28	0.62	=	52.08			
							172.62	mtr		
						@	0.395		68.18	Kg/mtr
	8mm dia bar C4									
	R1		6	16	1.90	=	182.40			
	R2		6	16	0.97	=	93.12			
	R3		6	32	0.62	=	119.04			
							394.56	mtr		
						@	0.395		155.85	Kg/mtr
	8mm dia bar C5									
	R1		2	14	1.90	=	53.20			
	R2		2	28	0.97	=	54.32			
	R3		2	28	0.62	=	34.72			
							142.24	mtr		
						@	0.395		56.18	Kg/mtr
	8mm dia bar C6									
	R1		1	14	2.20	=	30.80			
	R2		1	42	1.20	=	50.40			
	R3		1	28	0.62	=	17.36			
							98.56	mtr		
						@	0.395		38.93	Kg/mtr
	Beams									
	16mm dia bar									

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12mm dia bar										
B1		1			@	0.89				
16mm dia bar							55.60			
B2		1	4	13.90	=	55.60 mtr		87.85	Kg/mtr	
					@	1.58				
20mm dia bar							27.80			
B2		1	2	13.90	=	29.38 mtr		72.57	Kg/mtr	
					@	2.47				
16mm dia bar Extra Bar Top							4.40			
B2		1	2	2.20	=	4.40 mtr		6.95	Kg/mtr	
					@	1.58				
20mm dia bar Extra Bar Bottom							9.00			
B2		1	2	4.50	=	9.00 mtr		22.23	Kg/mtr	
					@	2.47				
16mm dia bar Extra Bar Bottom							10.50			
B2		1	3	3.50	=	10.50 mtr		16.59	Kg/mtr	
					@	1.58				
20mm dia bar							120.60			
B3		1	6	20.10	=	120.60 mtr		297.88	Kg/mtr	
					@	2.47				
12mm dia bar Extra Bar							6.80			
B3		1	2	3.40	=	6.80 mtr		6.05	Kg/mtr	
					@	0.89				
16mm dia bar Extra Bar							12.30			
B3		1	3	4.10	=	12.30 mtr		19.43	Kg/mtr	
					@	1.58				
12mm dia bar Extra Bar							7.00			
B3		1	2	3.50	=	7.00 mtr		6.23	Kg/mtr	
					@	0.89				
16mm dia bar Extra Bar							13.50			
B3		1	3	4.50	=	13.50 mtr		21.33	Kg/mtr	
					@	1.58				
12mm dia bar Extra Bar							9.00			
B3		1	2	4.50	=	9.00 mtr		8.01	Kg/mtr	
					@	0.89				
20mm dia bar										

C/FC

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	B4		1	4	21.40	=	85.60			
							85.60	mtr		
						@	2.47		211.43	Kg/mtr
	25mm dia bar									
	B4		1	2	21.40	=	42.80			
							42.80	mtr		
						@	3.85		164.78	Kg/mtr
	20mm dia bar Extra Bar									
	B4		1	2	8.50	=	17.00			
							17.00	mtr		
						@	2.47		41.99	Kg/mtr
	12mm dia bar Extra Bar									
	B4		1	2	3.50	=	7.00			
							7.00	mtr		
						@	0.89		6.23	Kg/mtr
	16mm dia bar Extra Bar									
	B4		1	2	5.00	=	10.00			
							10.00	mtr		
						@	1.58		15.80	Kg/mtr
	25mm dia bar									
	B4		1	3	6.00	=	18.00			
							18.00	mtr		
						@	3.85		69.30	Kg/mtr
	20mm dia bar									
	B6		1	6	10.15	=	60.90			
							60.90	mtr		
						@	2.47		150.42	Kg/mtr
	20mm dia bar Extra Bar									
	B6		1	3	4.30	=	12.90			
							12.90	mtr		
						@	2.47		31.86	Kg/mtr
	16mm dia bar Extra Bar									
	B6		1	3	3.00	=	9.00			
							9.00	mtr		
						@	1.58		14.22	Kg/mtr
	20mm dia bar Extra Bar									
	B6		1	3	8.30	=	24.90			
							24.90	mtr		
						@	2.47		61.50	Kg/mtr
	20mm dia bar									
	B7		1	6	14.40	=	86.40			
							86.40	mtr		
						@	2.47		213.41	Kg/mtr
	20mm dia bar Extra Bar									
	B7		1	3	4.50	=	13.50			
							13.50	mtr		
						@	2.47		33.35	Kg/mtr
	20mm dia bar Extra Bar									
	B7		1	3	10.00	=	30.00			
							30.00	mtr		
						@	2.47		74.10	Kg/mtr
	20mm dia bar									

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	B8		1	6	18.90	=	113.40			
							113.40	mtr		
						@	2.47		280.10	Kg/mtr
	12mm dia bar									
	B8		1	4	18.90	=	75.60			
							75.60	mtr		
						@	0.89		67.28	Kg/mtr
	16mm dia bar									
	B8A		1	4	18.90	=	75.60			
							75.60	mtr		
						@	1.58		119.45	Kg/mtr
	25mm dia bar Extra Bar									
	B8		1	2	3.50	=	7.00			
							7.00	mtr		
						@	3.85		26.95	Kg/mtr
	20mm dia bar Extra Bar									
	B8		1	1	3.50	=	3.50			
							3.50	mtr		
						@	2.47		8.65	Kg/mtr
	25mm dia bar Extra Bar									
	B8		1	2	5.90	=	11.80			
							11.80	mtr		
						@	3.85		45.43	Kg/mtr
	20mm dia bar Extra Bar									
	B8		1	1	5.90	=	5.90			
							5.90	mtr		
						@	2.47		14.57	Kg/mtr
	20mm dia bar Extra Bar									
	B8		1	3	4.50	=	13.50			
							13.50	mtr		
						@	2.47		33.35	Kg/mtr
	25mm dia bar Extra Bar									
	B8		1	3	8.70	=	26.10			
							26.10	mtr		
						@	3.85		100.49	Kg/mtr
	20mm dia bar Extra Bar									
	B8		1	2	5.80	=	11.60			
							11.60	mtr		
						@	2.47		28.65	Kg/mtr
	16mm dia bar Extra Bar									
	B8		1	1	5.80	=	5.80			
							5.80	mtr		
						@	1.58		9.16	Kg/mtr
	12mm dia bar Extra Bar									
	B8A		1	2	3.90	=	7.80			
							7.80	mtr		
						@	0.89		6.94	Kg/mtr
	20mm dia bar Extra Bar									
	B8A		1	2	5.80	=	11.60			
							11.60	mtr		
						@	2.47		28.65	Kg/mtr
	16mm dia bar Extra Bar									

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	B8A		1	4	5.00	=	20.00			
							20.00	mtr		
						@	1.58		31.60	Kg/mtr
	16mm dia bar Extra Bar									
	B8A		1	2	5.20	=	10.40			
							10.40	mtr		
						@	1.58		16.43	Kg/mtr
	20mm dia bar									
	B11		1	3	15.40	=	46.20			
							46.20	mtr		
						@	2.47		114.11	Kg/mtr
	16mm dia bar									
	B11		1	3	15.40	=	46.20			
							46.20	mtr		
						@	1.58		73.00	Kg/mtr
	20mm dia bar Extra Bar									
	B11		1	3	2.80	=	8.40			
							8.40	mtr		
						@	2.47		20.74	Kg/mtr
	25mm dia bar Extra Bar									
	B11		1	3	5.60	=	16.80			
							16.80	mtr		
						@	3.85		64.68	Kg/mtr
	20mm dia bar Extra Bar									
	B11		1	3	8.80	=	26.40			
							26.40	mtr		
						@	2.47		65.21	Kg/mtr
	16mm dia bar									
	B12		1	4	5.60	=	22.40			
							22.40	mtr		
						@	1.58		35.39	Kg/mtr
	20mm dia bar									
	B12		1	2	5.60	=	11.20			
							11.20	mtr		
						@	2.47		27.66	Kg/mtr
	20mm dia bar									
	B13		1	5	22.10	=	110.50			
							110.50	mtr		
						@	2.47			Kg/mtr
	16mm dia bar									
	B13		1	1	22.10	=	22.10			
							22.10	mtr		
						@	1.58		34.92	Kg/mtr
	12mm dia bar Extra Bar									
	B13		1	2	2.20	=	4.40			
							4.40	mtr		
						@	0.89		3.91	Kg/mtr
	20mm dia bar Extra Bar									
	B13		1	3	4.30	=	12.90			
							12.90	mtr		
						@	2.47		31.85	Kg/mtr
	20mm dia bar Extra Bar									

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	B13		1	3	3.60	=	10.80			
							10.80	mtr		
						@	2.47		26.67	Kg/mtr
	25mm dia bar Extra Bar									
	B13		1	2	5.40	=	10.80			
							10.80	mtr		
						@	3.86		41.67	Kg/mtr
	16mm dia bar Extra Bar									
	B13		1	2	2.60	=	5.20			
							5.20	mtr		
						@	1.58		8.22	Kg/mtr
	16mm Dia Bar									
	B14		1	4	6.25	=	25.00			
							25.00	mtr		
						@	1.58		39.51	Kg/mtr
	16mm dia bar Extra Bar									
	B14		1	2	5.00	=	10.00			
							10.00	mtr		
						@	1.58		15.80	Kg/mtr
	16mm dia bar Extra Bar									
	B14		1	2	2.00	=	4.00			
							4.00	mtr		
						@	1.58		6.32	Kg/mtr
	20mm Dia Bar									
	B15		1	6	26.10	=	156.60			
							156.60	mtr		
						@	2.47		386.67	Kg/mtr
	16mm dia bar Extra Bar									
	B15		1	3	4.10	=	12.30			
							12.30	mtr		
						@	1.58		19.44	Kg/mtr
	16mm dia bar Extra Bar									
	B15		1	3	4.00	=	12.00			
							12.00	mtr		
						@	1.58		18.96	Kg/mtr
	25mm dia bar Extra Bar									
	B15		1	3	4.60	=	13.80			
							13.80	mtr		
						@	3.86		53.24	Kg/mtr
	25mm dia bar Extra Bar									
	B15		1	3	8.70	=	26.10			
							26.10	mtr		
						@	3.86		100.69	Kg/mtr
	16mm Dia Bar									
	B17		1	4	7.10	=	28.40			
							28.40	mtr		
						@	1.58		44.88	Kg/mtr
	12mm Dia Bar									
	B17		1	4	7.10	=	28.40			
							28.40	mtr		
						@	0.89		25.24	Kg/mtr
	16mm dia bar Extra Bar									

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	B17		1	2	3.80	=	7.60			
							7.60	mtr		
						@	1.58		12.01	Kg/mtr
	12mm dia bar Extra Bar									
	B17		1	2	2.80	=	5.60			
							5.60	mtr		
						@	0.89		4.98	Kg/mtr
	20mm Dia Bar									
	B18		1	4	11.40	=	45.60			
							45.60	mtr		
						@	2.47		112.59	Kg/mtr
	16mm Dia Bar									
	B18		1	4	11.40	=	45.60			
							45.60	mtr		
						@	1.58		72.06	Kg/mtr
	12mm dia bar Extra Bar									
	B18		1	2	3.60	=	7.20			
							7.20	mtr		
						@	0.89		6.40	Kg/mtr
	12mm dia bar Extra Bar									
	B18		1	2	2.50	=	5.00			
							5.00	mtr		
						@	0.89		4.44	Kg/mtr
	20mm Dia Bar									
	B19		1	4	10.40	=	41.60			
							41.60	mtr		
						@	2.47		102.72	Kg/mtr
	16mm Dia Bar									
	B19		1	4	10.40	=	41.60			
							41.60	mtr		
						@	1.58		65.74	Kg/mtr
	12mm dia bar Extra Bar									
	B19		1	2	2.50	=	5.00			
							5.00	mtr		
						@	0.89		4.44	Kg/mtr
	12mm dia bar Extra Bar									
	B19		1	2	2.50	=	5.00			
							5.00	mtr		
						@	0.89		4.44	Kg/mtr
	25mm Dia Bar									
	B21		1	6	26.80	=	160.80			
							160.80	mtr		
						@	3.86		620.37	Kg/mtr
	25mm dia bar Extra Bar									
	B21		1	2	5.50	=	11.00			
							11.00	mtr		
						@	3.86		42.44	Kg/mtr
	20mm dia bar Extra Bar									
	B21		1	2	11.50	=	23.00			
							23.00	mtr		
						@	2.47		56.79	Kg/mtr
	16mm dia bar Extra Bar									

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[illegible]

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			1	22	7.30	=	160.60			
			1	40	6.30	=	252.00			
			1	15	5.70	=	85.50			
			1	30	6.80	=	204.00			
			1	31	6.60	=	204.60			
			1	37	10.50	=	388.50			
			1	20	8.80	=	176.00			
			1	21	8.40	=	176.40			
			1	22	8.40	=	184.80			
			1	22	8.10	=	178.20			
			1	14	7.00	=	98.00			
			1	12	7.40	=	88.80			
			1	21	7.10	=	149.10			
			1	21	5.50	=	115.50			
			1	15	8.80	=	132.00			
			1	15	7.50	=	112.50			
			1	10	7.30	=	73.00			
			1	12	5.30	=	63.60			
			1	28	7.40	=	207.20			
			1	28	7.10	=	198.80			
			1	26	10.70	=	278.20			
			1	16	12.20	=	195.20			
			1	14	6.10	=	85.40			
			1	20	9.10	=	182.00			
			1	20	7.10	=	142.00			
			1	16	7.60	=	121.60			
			1	16	9.60	=	153.60			
			1	12	7.10	=	85.20			
			1	12	6.70	=	80.40			
			1	4	6.20	=	24.80			
			1	18	7.80	=	140.40			
			1	18	8.10	=	145.80			
			1	16	6.80	=	108.80			
			1	16	8.30	=	132.80			
			1	11	6.10	=	67.10			
			1	11	6.50	=	71.50			
			1	18	8.70	=	156.60			
			1	18	8.40	=	151.20			
			1	19	8.50	=	161.50			
			1	20	6.80	=	136.00			
			1	11	1.60	=	17.60			
			1	11	6.60	=	72.60			
			1	20	8.40	=	168.00			
			1	20	8.60	=	172.00			
			1	18	9.00	=	162.00			
			1	18	7.30	=	131.40			
			1	2	4.00	=	8.00			
			1	2	3.88	=	7.75			
			1	2	3.75	=	7.50			
			1	2	3.63	=	7.25			
			1	2	3.50	=	7.00			
			1	2	3.38	=	6.75			

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಆರ್.ಆರ್. ನಗರ ಯೋಜನೆ ಉಪ-ವಿಭಾಗ-
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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